Monitoring Data Record

Project Title: B-3157 (Michael's Branch Site) COE Action ID: 200020843
WQC Number: 3467
Stream Name: Michael's Branch
City, County and other Location Information: Davidson County, Bridge #74 & #76 over SR 1242 and Michael's Branch and approaches on US 29/64/70 & I-85 Business.
Date Construction Completed: 9/5/07 Monitoring Year: (2) of 5
Ecoregion: 8 digit HUC unit 03040103
USGS Quad Name and Coordinates:
Rosgen Classification:
Length of Project: 876' Urban or Rural: Urban Watershed Size:
Monitoring DATA collected by: M. Green and J. Young Date: 8/10/09
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Road Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level (**1**) ~~2~~ ~~3~~
Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

Permit States: The permittee shall perform the following components of Level I monitoring each year for the 5-year monitoring period: Reference photos; plant survival (i.e., identify specific problem areas (missing, stressed, damaged or dead plantings), estimated causes, and proposed/required remedial action); visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. The permittee shall submit the monitoring reports to the Corps of Engineers, Raleigh Regulatory Field Office Project Manager, within sixty days after completing the monitoring. If less than two bankfull events occur during the first 5 years, the permittee shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the five-year monitoring period, the Corps of Engineers, in consultation with the resource agencies, may determine that further monitoring is not required. It is suggested that all bankfull occurrences be monitored and reported through the required monitoring period. The permittee shall perform and submit photo documentation twice each year (summer and winter) for the 5-year monitoring period, and for any subsequently required monitoring period.

Section 1. PHOTO REFERENCE SITES
(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site:
10 photos were taken from 5 photo point locations
Dates reference photos have been taken at this site: 1/23/08, 8/15/08, 3/12/09, 8/10/09
Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference: A site map with photo point locations is included with this report.

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL
Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action:

ADDITIONAL COMMENTS: Planted vegetation is surviving along the streambank and within the buffer area. Streambank reforestation included black willow, tag alder, elderberry, water oak, sycamore, yellow poplar, and green ash. Other vegetation noted: red maple, sweetgum, cattails, *Juncus* sp., jewelweed, tear thumb, lespedeza, and various grasses.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

Michael's Branch is stabilized for the Year 2 Summer evaluation. A bankfull event has occurred since the last monitoring evaluation. NCDOT will continue to monitor Michael's Branch.

Date	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					

Michael's Branch

Photo Point #1 (Upstream)

Photo Point #1 (Downstream)

Photo Point #2 (Upstream)

Photo Point #2 (Downstream)

Photo Point #3 (Upstream)

Photo Point #3 (Downstream)

Year 2 Summer – August 2009

Michael's Branch

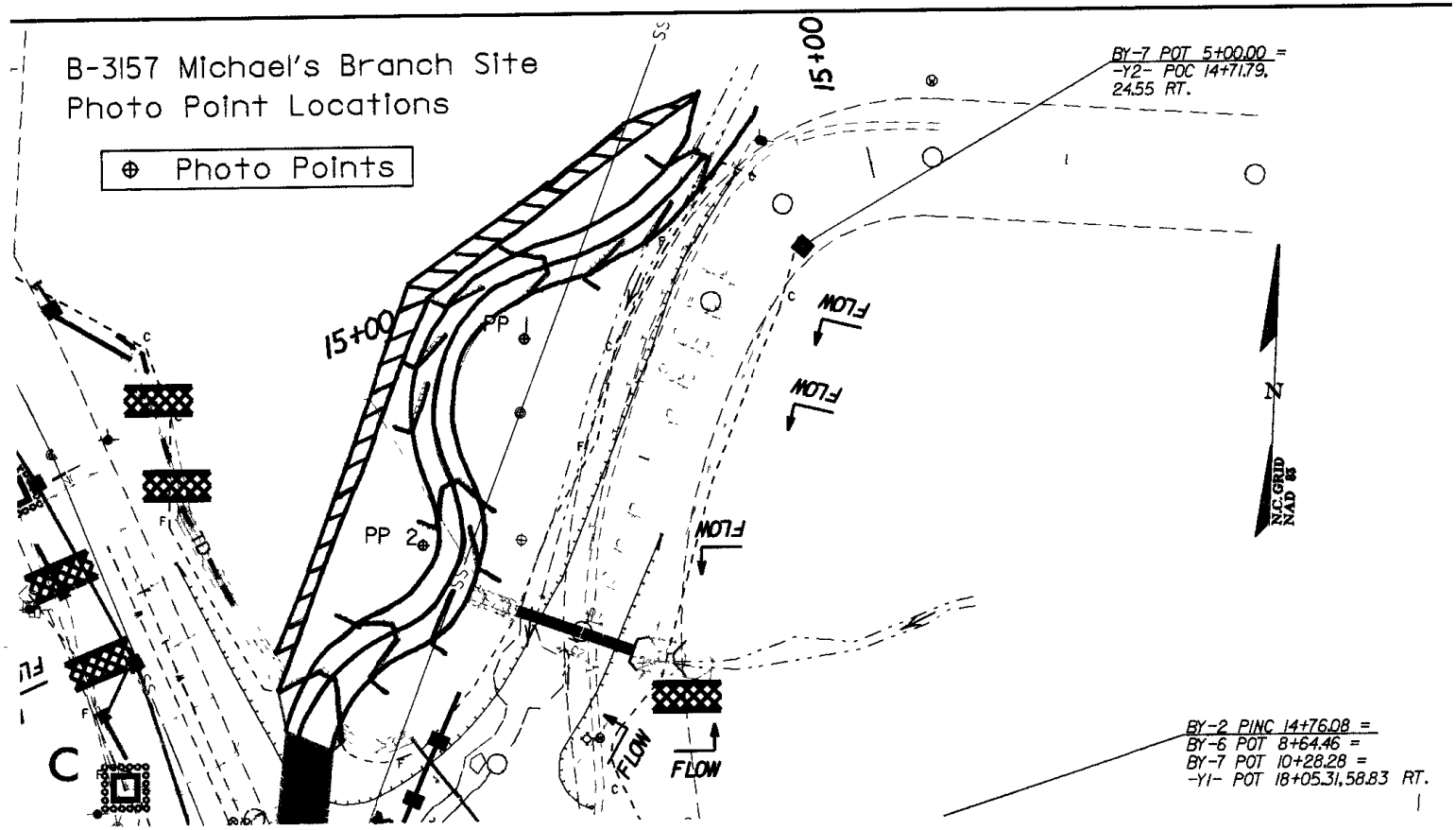
Photo Point #4 (Upstream)

Photo Point #4 (Downstream)

Photo Point #5 (Upstream)

Photo Point #5 (Downstream)

Year 2 Summer – August 2009


B-3157 Michael's Branch Site
Photo Point Locations
⊕ Photo Points
15+00
15+00
PP
PP 2
FLOW
FLOW
FLOW
FLOW
FLOW
N
N.C. GRID
NAD 83
BY-7 POT 5+00.00 =
-Y2- POC 14+71.79,
24.55 RT.
BY-2 PINC 14+76.08 =
BY-6 POT 8+64.46 =
BY-7 POT 10+28.28 =
-Y1- POT 18+05.31, 58.83 RT.

B-3157 Michael's Branch Site
Photo Point Locations